

PROCEDURE FOR VERIFYING TAG OPEN-CUP AASHTO T 79

A. PURPOSE

This procedure provides instructions for verifying the critical dimensions the cup and leveling device used to perform the Flash Point Test by the Tag Open-Cup Tester.

B. APPARATUS REQUIRED

1. Calibrated calipers readable to 0.05 mm
2. Timer, readable to 0.1 second
3. Thermometer, calibrated and readable to 2 °C (5 °F)
4. Balance, Class G2

C. PROCEDURE

On the cups:

1. Measure the outside diameter at the outer rim, below the outer rim, depth from the top of the rim, wall thickness near the top of rim, overall height from the top to the bottom, outside diameter, depression diameter and depth at the bottom of the cup, height from the top to the inward taper of the sidewall, and distance from the top of the rim to the bottom of the outer ring using caliper. Report each measurement to the nearest 0.1 mm.
2. Weigh the cup to the nearest 1 gram.

On the Filling Level Gage:

1. Measure the overall length, width, thickness, and distance from each point to the outer ends.

D. TOLERANCE

The equipment shall meet the tolerances specified in AASHTO T 79.

EQUIPMENT VERIFICATION RECORD

Verified By: _____	Date: _____
Equipment: <u>Tag Open Cup</u>	Location (Lab): _____
Identification No.: _____	Verification Frequency: _____
Previous Verification Date: _____	Next Due Date: _____
Verification Equipment Used: Calibrated caliper, ID #: _____ Balance, ID #: _____	
Thermometer, ID #: _____	
Verification Procedure: <u>(In-house) OMR-CVP-34 / AASHTO T 79</u>	

1. GLASS TEST CUP NUMBER	1	2	3	4	5	6
*A Overall height 50.0 to 53.2 mm (1.967 – 2.093 in.)						
C Bottom of flange to top rim 7.1 to 8.7 mm (0.279 - .0341 in.)						
D O.D. at base of ring 53.2 to 57.0 mm 2.092 – 2.248 in.)						
F O.D. including ring (approximately 59.9 mm [2.34 in.])						
Bottom retaining ring to cup rim 7.1 to 8.7 mm (0.279 – 0.341 in.)						
G Height, inside bottom to top of rim 47.6 mm (1.817 in.)						
H Wall thickness below ring 2.0 to 2.8 mm (0.074 – 0.106 in.)						
I Depression diameter 15.9 mm (.63 in.) and depth 0.8 mm (0.03 in.)						
Mass less than 95 g						

* See Figure 2

2. Leveling Device:

- (a) *C Of suitable metal, at least 3.2 mm (0.125 in.) thick?..... _____
- (b) Two projections:
- (1) 25.4 mm apart (1 in.)?..... _____
- (2) *E 2.93 – 3.43 mm (0.124 – 0.126 in.)?..... _____
- (c) G Larger hole, no more than 4 mm?..... _____
- (d) F Center of smaller hole 3.2 mm (0.125 in.) from bottom of level?..... _____

* See Figure 3